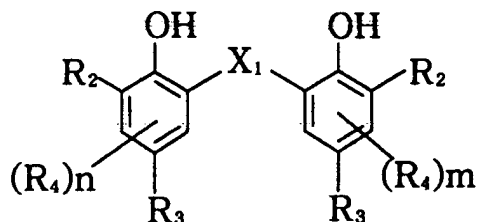


CLAIM AMENDMENTS

Claim 1 (Withdrawn)

A photothermographic imaging material comprising an organic silver salt, a binder, a reducing agent, coupler and a main developing agent which forms coloring images by reacting with the coupler, those which are on a support, wherein:

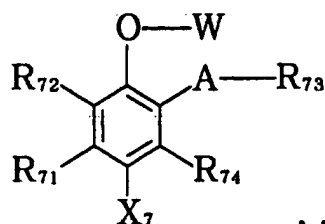
the reducing agent comprises a compound represented by the following Formula (1), the coupler is a compound represented by the following Formula (CP1) and sum of maximum density of colorant images at maximum absorption wavelength formed by the coupler and the main developing agent is 0.01 or more and 0.50 or less;



... Formula (1)

wherein the X_1 represents chalcogen atom or $-CHR_1-$ (the R_1 represents hydrogen, halogen, alkyl group, alkenyl group, aryl group or heterocyclic group) and the R_2 represents alkyl group, the two R_2 s can be either same or different, and at least one of them is secondary or tertiary alkyl group, the R_3 represents hydrogen atom or a group which can a substituent on a benzene

ring, the R_4 represents a group which can be a substituent on a benzene ring, the m and the n represent integer of 0 to 2 respectively; and

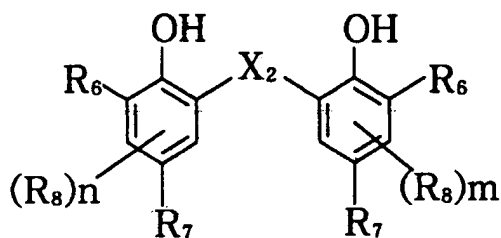


...Formula (CP1)

wherein the R_{71} is hydrogen atom, halogen atom, substituted or unsubstituted alkyl, alkoxy and $-NHCO-R$ group (the R represents an alkyl, aryl or heterocyclic group), the A represents $-NHCO-$, $-CONH-$ or $-NHCONH-$ group, and the R_{73} represents a substituted or unsubstituted alkyl, aryl or heterocyclic group, and the $-A-R_{73}$ may be a hydrogen atom, the W represents a hydrogen atom or $-CONH-R_{75}$, $-CO-R_{75}$ or $-CO-O-R_{75}$ group (the R_{75} represents a substituted or unsubstituted alkyl, aryl or heterocyclic group.), and the R_{72} and the R_{74} represent hydrogen atoms, halogen atom, a substituted or unsubstituted alkyl, alkenyl, alkoxy, carbamoyl or nitrile groups, and the X_7 represents a hydrogen atom or a group which can be eliminated by oxidation coupling reaction with main developing agent.

Claim 2 (Withdrawn)

The material of claim 1, wherein the reducing agent further comprises a compound represented by the following Formula (2); and



... **Formula (2)**

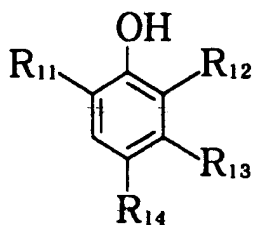
wherein the X_2 represents chalcogen atom or $-CHR_5-$ (the R_5 represents hydrogen, halogen, alkyl group, alkenyl group, aryl group or heterocyclic group) and the R_6 represents alkyl group. The two R_6 s can be either same or different, but are not secondary or tertiary alkyl group, the R_7 represents hydrogen atom or a group which can be a substituent on a benzene ring, R_8 represents a group which can be a substituent on a benzene ring, and the m and the n represent integer of 0 to 2 respectively.

Claim 3 (Withdrawn)

The material of claim 2, wherein mass ratio between the compound represented by the Formula (1) and the compound represented by the Formula (2) is 5:95 to 45:55.

Claim 4 (Withdrawn)

The material of claim 1, further comprising a compound represented by the following Formula (YA) in a side of a face having an image forming layer; and



... Formula (YA)

wherein the R₁₁ represents a substituted or unsubstituted alkyl group, the R₁₂ represents hydrogen atom or substituted or unsubstituted alkyl or acylamino groups, the R₁₁ and the R₁₂ are not 2-hydroxyphenylmethyl group, the R₁₃ represents hydrogen atom or substituted or unsubstituted alkyl group, and the R₁₄ represents a group capable of being substituent on a benzene ring.

Claim 5 (Withdrawn)

The material of claim 1, wherein an image obtained by thermal development in developing temperature at 123°C and developing time for 13.5 seconds has an average gradation of 2.0 to 4.0 at an optical density under diffused light in a range of 0.25 to 2.5 on a characteristic curve shown on rectangular

coordinates where Y axis is diffuse density and X axis is common logarithm exposure amount and unit lengths of the X axis and the Y axis are equal.

Claim 6 (Withdrawn)

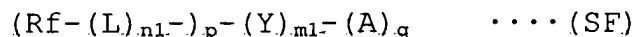
The material of claim 1, comprising at least one silver saving agent selected from a vinyl compound, a hydrazine derivative, a silane compound and a quaternary onium salt in a side of a face having an image forming layer.

Claim 7 (Withdrawn)

The material of claim 1, wherein the binder has a glass transition temperature (Tg) of 70 to 150 °C.

Claim 8 (Withdrawn)

The material of claim 1, further comprising a compound represented by the following formula (SF); and



wherein the Rf represents a substituent having fluorine atom, the L represents a bivalent linkage group containing no fluorine atom, the Y represents a linkage group having (p + q) valency, and the A represents an anion group or an anion salt group. The m₁ and the n₁ represent an integer of 0 or 1 respectively, the p and the q represent an integer of 1 to 3

respectively, and when the q is 1, at least one of the n_1 and the m_1 is not 0.

Claim 9 (Withdrawn)

The material of claim 1, wherein the silver halide comprises silver halide particles having a mean particle size of 10 to 50 nm.

Claim 10 (Withdrawn)

The material of claim 9, wherein the silver halide further comprises silver halide particles having the mean particle size of 55 to 100nm.

Claim 11 (Withdrawn)

The material of claim 1, wherein the silver halide comprises silver halide particles which are chemically sensitized by a chalcogen compound.

Claim 12 (Withdrawn)

The material of claim 1, wherein an content of silver in an image forming layer is from 0.3 to 1.5 g/m².

Claim 13 (Withdrawn)

The material of claim 1, wherein a value of $Rz(E)/Rz(B)$ is 0.1 or more and 0.7 or less where average roughness of 10 points at outermost surface at a side of an image forming layer with interleaving the support is rendered the $Rz(E)$ and the average roughness of 10 points at outermost surface at an opposite side of the image forming layer with interleaving the support is rendered the $Rz(B)$.

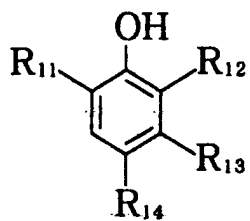
Claim 14 (Withdrawn)

The material of claim 1, wherein a value of Lb/Le is 2.0 or more and 10 or less where mean particle size of a matting agent having maximum mean particle size contained a layer at an opposite side of an image forming layer with interleaving the support is rendered the Le (μm) and the mean particle size of matting agent having the maximum mean particle size contained in an opposite layer at the side of the image forming layer with interleaving the support is rendered the Lb (μm).

Claim 15 (Withdrawn)

A photothermographic imaging material comprising an organic silver salt, a binder, a reducing agent, coupler, a main developing agent which forms coloring images by reacting with the coupler, and a compound represented by the following Formula (YA) those which are on a support wherein

sum of maximum density of a colorant images at maximum absorption wavelength formed by the coupler and the main developing agent is 0.01 or more and 0.50 or less; and

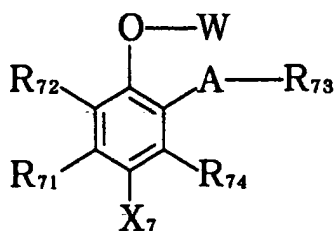


... Formula (YA)

wherein the R₁₁ represents a substituted or unsubstituted alkyl group, the R₁₂ represents hydrogen atom or substituted or unsubstituted alkyl or acylamino groups, the R₁₁ and the R₁₂ are not 2-hydroxyphenylmethyl group, the R₁₃ represents hydrogen atom or substituted or unsubstituted alkyl group, and the R₁₄ represents a group capable of being substituent on a benzene ring.

Claim 16 (Withdrawn)

The material of claim 15, wherein the coupler is a compound represented by the following formula (CP2); and



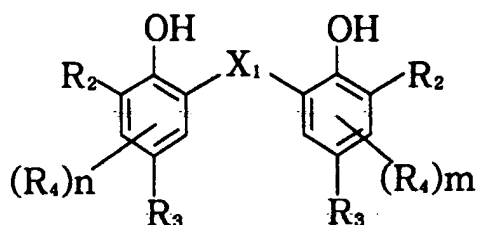
... Formula (CP2)

Wherein the R_{71} and the R_{72} are hydrogen atoms, halogen atoms, substituted or unsubstituted alkyl, alkenyl, alkoxy and -NHCO-R groups (the R represents an alkyl, aryl or heterocyclic group), or the R_{71} and the R_{72} are the groups which are bound one another to form an aliphatic hydrocarbon ring, aromatic hydrocarbon ring or heterocycle, the A represents -NHCO-, -CONH- or -NHCONH- group, and the R_{73} represents a substituted or unsubstituted alkyl, aryl or heterocyclic group, the -A- R_{73} may be a hydrogen atom, the W represents a hydrogen atom or -CONH- R_{75} , -CO- R_{75} or -CO-O- R_{75} group (the R_{75} represents a substituted or unsubstituted alkyl, aryl or heterocyclic group

.), and the R_{74} represents a hydrogen atom, halogen atom, a substituted or unsubstituted alkyl, alkoxy, carbamoyl or nitrile group, and the X_7 represents a hydrogen atom or a group which can be eliminated by oxidation coupling reaction with main developing agent.

Claim 17 (Withdrawn)

The material of claim 15, wherein the reducing agent comprises a compound represented by the following Formula (1); and



... Formula (1)

wherein the X_1 represents chalcogen atom or $-CHR_1-$ (the R_1 represents hydrogen, halogen, alkyl group, alkenyl group, aryl group or heterocyclic group) and the R_2 represents alkyl group, the two R_2 s can be either same or different, and at least one of them is secondary or tertiary alkyl group, the R_3 represents hydrogen atom or a group which can be a substituent on a benzene ring, the R_4 represents a group which can be a substituent on a benzene ring, the m and the n represent integer of 0 to 2 respectively.

Claim 18 (Withdrawn)

The material of claim 15, wherein an image obtained by thermal development in developing temperature at $123^{\circ}C$ and developing time for 13.5 seconds has an average gradation of 2.0 to 4.0 at an optical density under diffused light in a range of

0.25 to 2.5 on a characteristic curve shown on rectangular coordinates where Y axis is diffuse density and X axis is common logarithm exposure amount and unit lengths of the X axis and the Y axis are equal.

Claim 19 (Withdrawn)

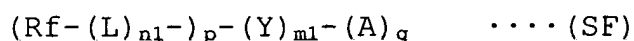
The material of claim 15, comprising at least one silver saving agent selected from a vinyl compound, a hydrazine derivative, a silane compound and a quaternary onium salt in a side of a face having an image forming layer.

Claim 20 (Withdrawn)

The material of claim 15, wherein the binder has a glass transition temperature (T_g) of 70 to 150 °C.

Claim 21 (Withdrawn)

The material of claim 15, further comprising a compound represented by the following Formula (SF); and



wherein the Rf represents a substituent having fluorine atom, the L represents a bivalent linkage group containing no fluorine atom, the Y represents a linkage group having (p + q) valency, and the A represents an anion group or an anion salt group. The m₁ and the n₁ represent an integer of 0 or 1

respectively, the p and the q represent an integer of 1 to 3 respectively, and when the q is 1, at least one of the n_1 and the m_1 is not 0.

Claim 22 (Withdrawn)

The material of claim 15, wherein the silver halide comprises silver halide particles having a mean particle size of 10 to 50 nm.

Claim 23 (Withdrawn)

The material of claim ~~23~~, 15 wherein the silver halide further comprises silver halide particles having the mean particle size of 55 to 100nm.

Claim 24 (Withdrawn)

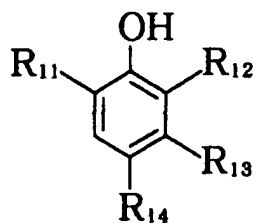
The material of claim 15, wherein the silver halide comprises silver halide particles which are chemically sensitized by a chalcogen compound.

Claim 25 (Withdrawn)

The material of claim 15, wherein a content of silver in an image forming layer is from 0.3 to 1.5 g/m².

Claim 26 (Currently Amended)

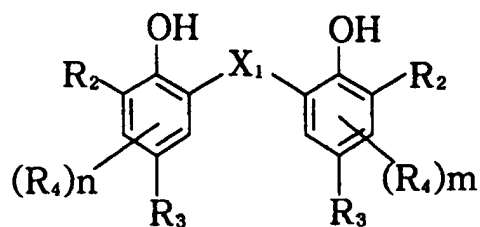
A photothermographic imaging material comprising a organic silver salt, a silver halide, a binder, a reducing agent, a cyan leuco ~~dye~~ dye, and a ~~compound~~ yellow coloring leuco dye represented by the following Formula (YA); and



... **Formula (YA)**

wherein the R₁₁ represents a substituted or unsubstituted alkyl group, the R₁₂ represents hydrogen atom or substituted or unsubstituted alkyl or acylamino groups, the R₁₁ and the R₁₂ are not 2-hydroxyphenylmethyl group, the R₁₃ represents hydrogen atom or substituted or unsubstituted alkyl group, and the R₁₄ represents a group capable of being substituent on a benzene ring; and

wherein the reducing agent comprises a compound represented by the following Formula (1); and



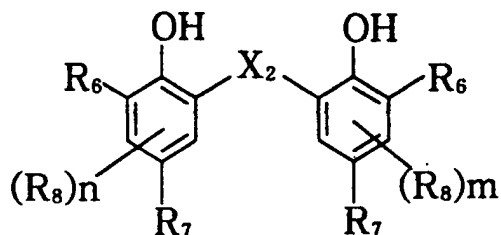
... Formula (1)

wherein the X_1 represents chalcogen atom or ~~$-CHR_1-$~~ (the $-CHR_1-$, the R_1 represents hydrogen, halogen, alkyl group, alkenyl group, aryl group or heterocyclic ~~group~~ group, and the R_2 represents alkyl group, the two R_2 s can be either same or different, and at least one of them is secondary or tertiary alkyl group, the R_3 represents hydrogen atom or a group which can be a substituent on a benzene ring, the R_4 represents a group which can be a substituent on a benzene ring, the m and the n represent integer of 0 to 2 respectively.

Claim 27 (Cancelled)

Claim 28 (Currently Amended)

The material of claim 26, wherein the reducing agent further comprises a compound represented by the following Formula (2); and



... Formula (2)

wherein the X_2 represents chalcogen atom or ~~$-CHR_5-$~~ (the $-CHR_5-$, the R_5 represents hydrogen, halogen, alkyl group, alkenyl group, aryl group or heterocyclic ~~group~~ group, and the R_6 represents alkyl group, the two R_6 s can be either same or different, but are not secondary or tertiary alkyl group, the R_7 represents hydrogen atom or a group which can a substituent on a benzene ring, R_8 represents a group which can be a substituent on a benzene ring, and the m and the n represent integer of 0 to 2 respectively.

Claim 29 (Original)

The material of claim 28, wherein mass ratio between the compound represented by the Formula (1) and the compound represented by the Formula (2) is 5:95 to 45:55.

Claim 30 (Original)

The material of claim 26, wherein an image obtained by thermal development in developing temperature at 123°C and developing time for 13.5 seconds has an average gradation of 2.0 to 4.0 at an optical density under diffused light in a range of 0.25 to 2.5 on a characteristic curve shown on rectangular coordinates where Y axis is diffuse density and X axis is common logarithm exposure amount and unit lengths of the X axis and the Y axis are equal.

Claim 31 (Original)

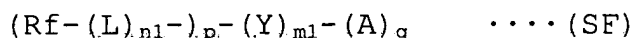
The material of claim 26, comprising at least one silver saving agent selected from a vinyl compound, a hydrazine derivative, a silane compound and a quaternary onium salt in a side of a face having an image forming layer.

Claim 32 (Original)

The material of claim 26, wherein the binder has a glass transition temperature (Tg) of 70 to 150 °C.

Claim 33 (Previously Presented)

The material of claim 26, further comprising a compound represented by the following Formula (SF); and



wherein the Rf represents a substituent having fluorine atom, the L represents a bivalent linkage group containing no fluorine atom, the Y represents a linkage group having (p + q) valency, and the A represents an anion group or an anion salt group, the m_1 and the n_1 represent an integer of 0 or 1 respectively, the p and the q represent an integer of 1 to 3 respectively, and when the q is 1, at least one of the n_1 and the m_1 is not 0.

Claim 34 (Original)

The material of claim 26, wherein the silver halide comprises silver halide particles having a mean particle size of 10 to 50 nm.

Claim 35 (Original)

The material of claim 34, wherein the silver halide further comprises silver halide particles having the mean particle size of 55 to 100nm.

Claim 36 (Original)

The material of claim 26, wherein the silver halide comprises silver halide particles which are chemically sensitized by a chalcogen compound.

Claim 37 (Original)

The material of claim 26, wherein a content of silver in an image forming layer is from 0.3 to 1.5 g/m².